

Chapter 2

Simple Comparative Experiments

Solutions

2.1. Computer output for a random sample of data is shown below. Some of the quantities are missing. Compute the values of the missing quantities.

Variable	N	Mean	SE Mean	Std. Dev.	Variance	Minimum	Maximum
Y	9	18.96	?	3.12	?	15.94	27.16

SE Mean = 1.04 Variance = 9.73

2.2. Computer output for a random sample of data is shown below. Some of the quantities are missing. Compute the values of the missing quantities.

Variable	N	Mean	SE Mean	Std. Dev.	Sum
Y	16	?	0.159	?	399.851

Mean = 24.991 Std. Dev. = 0.636

2.3. Suppose that we are testing $H_0: \mu = \mu_0$ versus $H_1: \mu \neq \mu_0$. Calculate the P -value for the following observed values of the test statistic:

- (a) $Z_0 = 2.25$ $P\text{-value} = 0.02445$
- (b) $Z_0 = 1.55$ $P\text{-value} = 0.12114$
- (c) $Z_0 = 2.10$ $P\text{-value} = 0.03573$
- (d) $Z_0 = 1.95$ $P\text{-value} = 0.05118$
- (e) $Z_0 = -0.10$ $P\text{-value} = 0.92054$

2.4. Suppose that we are testing $H_0: \mu = \mu_0$ versus $H_1: \mu > \mu_0$. Calculate the P -value for the following observed values of the test statistic:

- (a) $Z_0 = 2.45$ $P\text{-value} = 0.00714$
- (b) $Z_0 = -1.53$ $P\text{-value} = 0.93699$

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**Douglas C. Montgomery, George C.
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